JAVA.IO.DATAINPUTSTREAM CLASS

Introduction

The **java.util.DataInputStream** class lets an application read primitive Java data types from an underlying input stream in a machine-independent way.Following are the important points about DataInputStream:

- An application uses a data output stream to write data that can later be read by a data input stream.

- DataInputStream is not necessarily safe for multithreaded access. Thread safety is optional and is the responsibility of users of methods in this class.

Class declaration

Following is the declaration for **java.util.DataInputStream** class:

```
public class DataInputStream
   extends FilterInputStream
      implements DataInput
```

Field

Following are the fields for **java.util.DataInputStream** class:

- **protected InputStream in** -- This is the input stream to be filtered.

Class constructors

S.N.	Constructor & Description
1	**DataInputStream(InputStream in)** This creates a DataInputStream that uses the specified underlying InputStream.

Class methods

S.N.	Method & Description
1	int read(byte[] b) This method reads some number of bytes from the contained input stream and stores them into the buffer array *b*
2	int read(byte[] b, int off, int len) This method reads up to *len* bytes of data from the contained input stream into an array of bytes.
3	boolean readBoolean() This method reads one input byte and returns true if that byte is nonzero, false if that byte is zero.
4	byte readByte() This method reads and returns one input byte.

5	char readChar() This method reads two input bytes and returns a char value.
6	double readDouble() This method reads eight input bytes and returns a double value.
7	float readFloat() This method reads four input bytes and returns a float value.
8	void readFully(byte[] b) This method reads some bytes from an input stream and stores them into the buffer array *b*.
9	void readFully(byte[] b, int off, int len) This method reads *len* bytes from an input stream.
10	int readInt() This method reads four input bytes and returns an int value.
11	long readLong() This method reads eight input bytes and returns a long value.
12	short readShort() This method reads two input bytes and returns a short value.
13	int readUnsignedByte() This method reads one input byte, zero-extends it to type int, and returns the result, which is therefore in the range 0 through 255.
14	int readUnsignedShort() This method reads two input bytes and returns an int value in the range 0 through 65535.
15	String readUTF() This method reads in a string that has been encoded using a modified UTF-8 format.
16	static String readUTF(DataInput in) This method reads from the stream in a representation of a Unicode character string encoded in modified UTF-8 format; this string of characters is then returned as a String.
17	int skipBytes(int n) This method makes an attempt to skip over n bytes of data from the input stream, discarding the skipped bytes.

Methods inherited

This class inherits methods from the following classes:

- java.util.FilterInputStream

- java.util.Object